



## Computer Science Department

### Web Application and Technologies (COMP 334)

1<sup>st</sup> Semester 2017/2018

Instructor: Dr. Yousef Hassouneh

Assignment 3: Responsive website

Due Date 04/12/2017

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This assignment aims to produce a responsive website using bootstrap.

#### Overview

Use the Bootstrap CSS framework (included with the start files) as well as modify *bootproj.css* and *bootproj.html* so it looks similar to that shown in Figure 1 below.

#### Instructions:

1. Examine *bootproj.html* in the browser. You will need to add a fair bit of HTML in accordance with the Bootstrap documentation. Since you can use the various Bootstrap classes, you will need to write very little CSS (the solution shown in Figure 1 has just over a dozen rules defined).
2. The first step will be defining the basic structure. Figure 1 below shows that most of the content is contained within a main row (i.e., below the navbar and above the footer) that is composed of two columns (one 2 wide, the other 10 wide). The Bootstrap grid classes (e.g., col-md-10) are shown at the top of the figure. One of the columns has a nested row within it that contains the main photo image and the data on the photo.
3. The footer contains three columns. One of these contains another nested row.
4. Figure 1 below identifies the other Bootstrap components that are used in this project. You will need to use the online Bootstrap documentation for more information on how to use these components.

You can find help about bootstrap at the following links

A good reference for all your needs is w3school:

<https://www.w3schools.com/bootstrap/>

Some Playlist Videos at youtube

<https://www.youtube.com/watch?v=314m7YBRFvQ&index=1&list=PL6n9fhu94yhXd4xnk-j5FGhHjUv1LsFOV>

<https://www.youtube.com/watch?v=ZBejUQX49ls&list=PLS1QulWo1RlaBQ1DOYYijz38edqHzwM1>

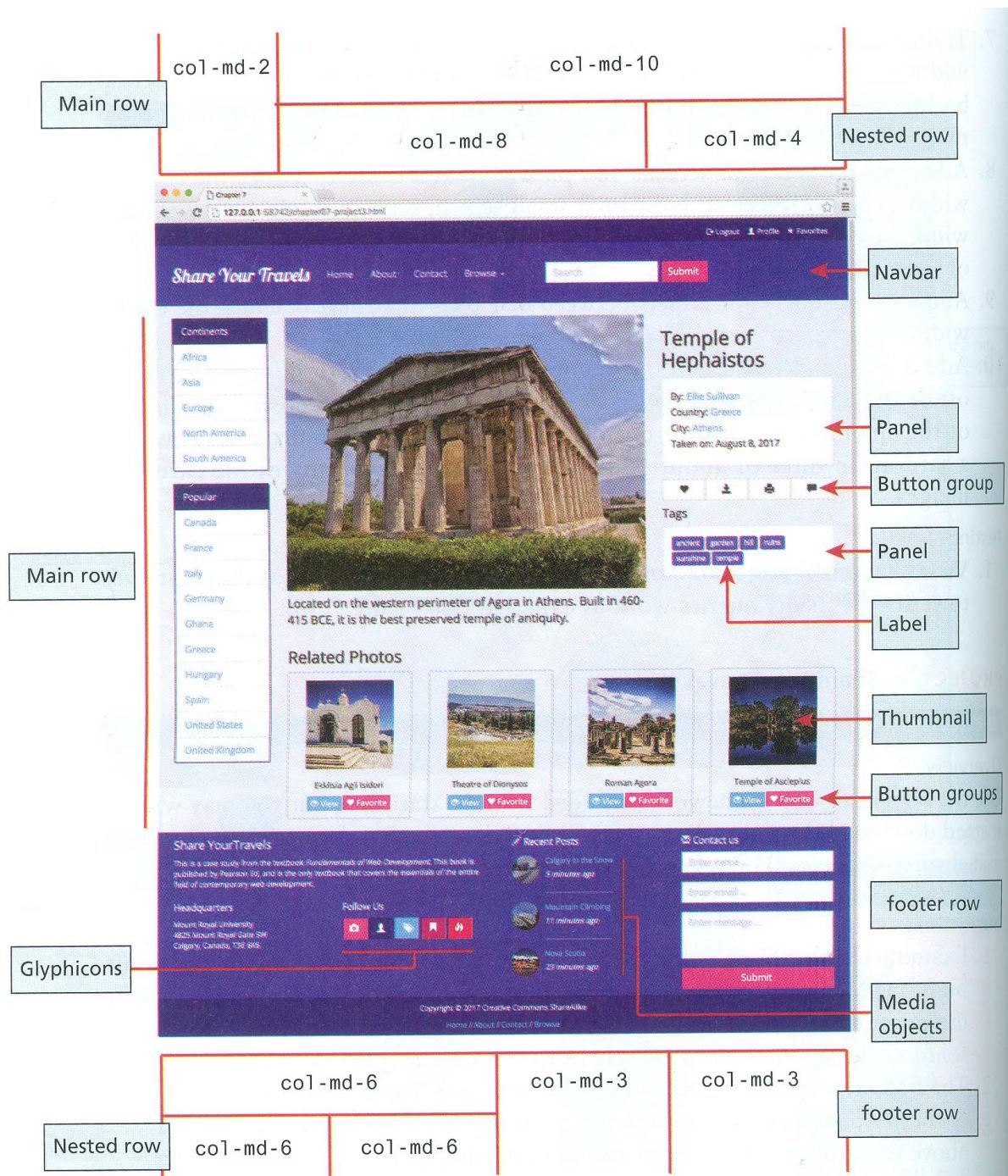


Figure 1

Here you will find some practical hits that will help you to understand the *bootproj.html* file and the illustrations on Figure 1.

In the *bootproj.html* file, the plain code gives hints to add your modifications, for example given the following section:

```
<div>
    <div>Continents</div>
        <ul>
            <li><a href="#">Africa</a></li>
            <li><a href="#">Asia</a></li>
            <li><a href="#">Europe</a></li>
            <li><a href="#">North America</a></li>
            <li><a href="#">South America</a></li>
        </ul>
    </div>
</div>
```

You are asked to wrap it in a panel. You should begin by searching w3cshool for bootstrap panels leading you to the following link:

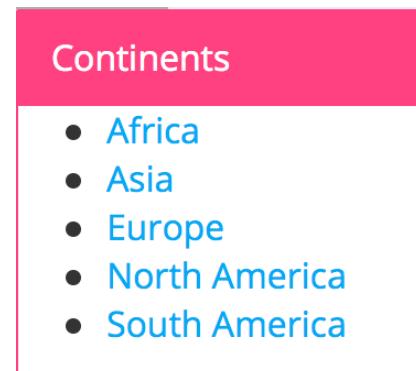
[https://www.w3schools.com/bootstrap/bootstrap\\_panels.asp](https://www.w3schools.com/bootstrap/bootstrap_panels.asp)

One of many examples is the following:

```
<div class="panel panel-default">
    <div class="panel-heading">Panel Heading</div>
    <div class="panel-body">Panel Content</div>
</div>
```

As you can see each panel has a **heading** and a **body**, and we can apply that to our project. Note that in the project code (the highlighted areas) have space before the ending tag ">" indicating a place where you should insert your code. The code becomes:

```
<div class="panel panel-primary">
    <div class="panel-heading">Continents</div>
    <ul>
        <li><a href="#">Africa</a></li>
        <li><a href="#">Asia</a></li>
        <li><a href="#">Europe</a></li>
        <li><a href="#">North America</a></li>
        <li><a href="#">South America</a></li>
    </ul>
</div>
```



We can use the same logic to do the whole project.

General rules to follow when using bootstrap and while doing this project:

- 1- Your own CSS should be minimum. (you can add your own classes to change colors or padding but try to do it using bootstrap classes).
- 2- Columns in bootstrap should be wrapped in a row. (Each row has columns).
- 3- In this project use only col-md-\* classes. In general other column classes can be used for other screen sizes.
- 4- For images you should usually use the class "img-responsive".
- 5- You should search w3school based on what you need, for example while working on buttons search for bootstrap buttons, while working on navigation menus search for bootstrap Navbars and so on.
- 6- Some requirements are harder to find, for example thumbnails can be found under bootstrap images.
- 7- W3school website gives various examples for each section, you can use parts from different examples to complete your page.
- 8- Try to resize your browser width to simulate a smaller screen.

### **Testing**

Be sure to test by increasing/decreasing the size of the browser window. If you shrink the browser window sufficiently it should use the built-in Bootstrap media queries to adapt nicely to the smaller window size. This will require you to construct the navbars with the appropriate collapse classes.

You must submit your files to CS Host. Also you must compressed (Zipped) all your files to a file name it as bootstrap-stID.zip and submitted to [Ritaj by replaying to the message before 11:00 PM on 04/12/2017.](#)

-  I will not accept any submission sent as a memo. Thus make sure that you submit your work before the due date.